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DATE MAILED: 08/19/2010

NOTICE OF ALLOWANCE AND FEE(S) DUE

25268 7590 08/19/2010 LAW OFFICES OF RONALD M ANDERSON 600 108TH AVE. NE

SUITE 507 BELLEVIE WA 98004 EXAMINER

MUSSELMAN, TIMOTHY A

ART UNIT PAPER NUMBER

3215

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/718,492 | 11/20/2003 | Christopher C. Toly | SIMU0004 | 8227 |

TITLE OF INVENTION: MEDICAL PHYSIOLOGICAL SIMULATOR INCLUDING A CONDUCTIVE ELASTOMER LAYER

 APPLN TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FRES; DUE
 DATE DUE

 nonprovisional
 YES
 \$755
 \$300
 \$0
 \$1055
 11/19/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This appropriate. All further c indicated unless correcte | form should be used for correspondence includir d below or directed oth | or transmittir | g the ISSI advance o ock 1, by (| JE FEE and PUBLICATI rders and notification of r a) specifying a new corres | ON FEE (if requi naintenance fees w pondence address; | red). E rill be a and/or | Hocks 1 through 5 st mailed to the current (b) indicating a sepa | tould be completed correspondence addr rate "FEE ADDRES | where ess as S" for |
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| maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | | |
| | 7590 08/19 | | | | Con | tificato | of Moiling on Trope | niccion | |
| LAW OFFICES OF RONALD M ANDERSON 600 108TH AVE, NE SUITE 507 | | | | I he Stat addi tran | I hereby certify that this Fec(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE IEEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. | | | | |
| BELLEVUE, WA | A 98004 | | | | | | | (Depositor's | name) |
| | | | | | | | | | nature) |
| | | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | | FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO. CON | | CONFIRMATION N | О. |
| 10/718,492 | 11/20/2003 | | | Christopher C. Toly | | | SIMU0004 | 8227 | |
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| APPLN, TYPE | SMALL ENTITY | ISSUE FE | E DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE | FEE | TOTAL FEE(S) DUE | DATE DUE | _ |
| nonprovisional | YES | \$75 | i5 | \$300 | \$0 | | \$1055 | 11/19/2010 | _ |
| EXAMI | NER | ART U | NIT | CLASS-SUBCLASS | | | | | |
| MUSSELMAN, TIMOTHY A | | 371 | 5 | 434-267000 | | | | | |
| 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.53). Change of correspondence address (or Change of Correspondence Address from PIONSB/122) attached. Tree Address "indication for "Fee Address" Indication form PIOSB/47 Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | pondence orm Customer | 2. For printing on the pattent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 1 1 2 1 2 1 3 1 3 1 3 1 1 1 1 1 1 1 1 1 | | | | | |
| PLEASE NOTE: Unk recordation as set forth (A) NAME OF ASSIG | ess an assignee is ident nin 37 CFR 3.11. Comp | ified below, r letion of this | io assignee form is NO | THE PATENT (print or typ data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY | atent. If an assigna assignment. and STATE OR C | OUNT | RY) | | |
| Please check the appropri | ate assignee category or | categories (w | ill not be p | rinted on the patent): | Individual | rporati | on or other private gro | up entity 🖵 Govern | ıment |
| 4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies | | | - | A. Payment of Fec(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit eard. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | | |
| | SMALL ENTITY state | s. See 37 CFI | | ☐ b. Applicant is no lon | | | | | |
| NOTE: The Issue Fee and interest as shown by the re | l Publication Fee (if req ecords of the United Sta | iired) will not tes Patent and | be accepte Trademark | d from anyone other than t Office. | he applicant; a regi | stered a | attorney or agent; or th | e assignee or other pa | aty in |
| Authorized Signature | | | | | Date | | | | |
| Typed or printed name | | | | Registration No. | | | | | |
| This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231 | ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu- irginia 22313-1450. DC (3-1450. | FR 1.311. Th U.S.C. 122 a USPTO. Tin den, should b NOT SEND | e information of 37 CFR to will vary to the FEES OR | on is required to obtain or r 1.14. This collection is est r depending upon the indiv e Chief Information Office COMPLETED FORMS TO | etain a benefit by the imated to take 12 r idual case. Any co r, U.S. Patent and D'THIS ADDRESS | he publ ninutes mment Traden . SENI | ic which is to file (and to complete, includin s on the amount of tin hark Office, U.S. Depo O TO: Commissioner | by the USPTO to programs; gathering, preparing the you require to construent of Commerce or Patents, P.O. Box | cess) g, and nplete , P.O. 1450. |

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| 25268 75 | 90 08/19/2010 | | EXAM | UNER | |
| LAW OFFICES OF RONALD M ANDERSON | | | MUSSELMAN, TIMOTHY A | | |
| 600 108TH AVE, NE | | | ART UNIT | PAPER NUMBER | |
| SUITE 507 BELLEVUE, WA 98004 | | | 3715 DATE MAIL ED: 08/19/2010 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 538 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 538 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

| Application No. | Applicant(s) | | | | |
|-------------------|-----------------|--------|--|--|--|
| 10/718,492 | TOLY, CHRISTOPH | IER C. | | | |
| examiner | Art Unit | | | | |
| TIMOTHY MUSSELMAN | 3715 | | | | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to amendment filed 7/12/2010.
- The allowed claim(s) is/are 2,4,5,21-28,33,43,44,88 and 89 (renumbered as claims 1-16).
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) \square All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
 - 1) hereto or 2) to Paper No./Mail Date
 - Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of

each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)

of Biological Material

- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit
- 5. Notice of Informal Patent Application Interview Summary (PTO-413),
- Paper No./Mail Date 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other .

/XUAN M. THAI/

Supervisory Patent Examiner, Art Unit 3715

Art Unit: 3715

EXAMINER'S AMENDMENT

An examiners amendment to the record appears below. Should the changes be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with applicant's representative Mike King on July 28th, 2010. The amendment is to further clarify the invention.

The application has been amended as follows:

IN THE CLAIMS:

In claim 2, beginning at line 11, replace "determine if a quantity of the chemical detected is sufficient to trigger a simulated physiological response;", with – determine if a quantity of the chemical administered in a simulated procedure and detected by the chemical sensor is sufficient to trigger a simulated physiological response: --.

REASONS FOR ALLOWANCE

Patentability is seen in, although not limited to, independent claim 2, because the prior art does not teach or suggest a physiological trainer comprising an evaluation circuit which includes a conductive elastomer configured as a portion of the simulated structure, and a chemical sensor which determines if a quantity of an administered chemical is sufficient to trigger a simulated physiological response. Van Meurs et al. (US 6,273,728) discloses in col. 14: 30-65 wherein a system receives a quantity of an administered simulated drug, but the types of administered drugs are differentiated by scanning of labels into a computer system before the item is

administered (i.e. the simulated drugs need not actually be different substances). This is in contrast to the instant invention as defined in claim 2 which identifies administered substances by sensing the various substances with a chemical sensor.

Patentability is seen in although not limited to independent claims 88 and 89 for the reasons set forth in the 'allowable subject matter' section of the previous office actions.

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY MUSSELMAN whose telephone number is (571)272-1814. The examiner can normally be reached on Mon-Thu 6:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Xuan Thai can be reached on (571)272-7147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/TIMOTHY MUSSELMAN/

Examiner - Art Unit 3715

/XUAN M. THAI/

Supervisory Patent Examiner, Art Unit 3715